

LL. 4.C.

THE BRITISH CORPORATION REGISTER OF
SHIPPING AND AIRCRAFT

"BLISWORTH"

SURVEY FOR FREEBOARD

869.

STEAMER, ~~TANKER~~, SAILER "KATHLEEN" WITH ☐ WITHOUT ☒ TIMBER DECK CARGO

Nationality British Builders' Name and No. of Ship Ailsa S.B. & Co. Ltd. Ayr. N° 65

Port of Registry LONDON Belfast Owners J. Milligan & Co. Grand Union (Shipping) London

Official Number 113519 ✓ (Mgt - J. Kelly Ltd.)

Gross Tonnage 738 ✓ Port and Date of Survey Belfast. November 1933

Date of Build 4/1902 Name of Surveyor J. H. Mearns

Particulars of Classification B.S. Names of Sister Ships

Type of Superstructures Quarter, Bridge and Forecastle decks.

Give full particulars of the following:—

Fiddley and Funnel Coamings (state height of coamings, type of fiddley covers, and if these are permanently attached in their proper positions)

Fiddley Covers, Steel, Hinged, permanently attached.

Flush Bunker Scuttles on freeboard and superstructure decks (state material, type of joints, etc., and if secured by hinge or permanent chain attachment)

None

Companionways on freeboard and superstructure decks (state material, height of doorway sills, type of doors, and if these can be closed and secured from both sides)

30 Forecastle, on upper Dk, Steel, 1 Door each 15" Sills, ~~Wood door~~ STEEL W.T. DOOR. operated both sides.

Ventilators in exposed positions on freeboard, raised quarter and superstructure decks (state height of steel coamings, pitch of rivets in deck connection, type of closing arrangements)

Forecastle Dk. Fore Fwd. 13½" Bolts 6½" Centres R.Q. Dk No 2 Hatch Fwd 36" R 4"

" Aft 18" Rivets 4½" " Aft 36" 4"

Upper Dk No 1 Hatch Fwd 33" 4" Aft PK. 16" 4"

" Aft 40" 4" Wood plugs & Canvas Covers.

Airpipes in exposed positions on freeboard, raised quarter and superstructure decks (state height to opening and if satisfactory closing arrangements are provided)

Upper Dk Fore Pk. 36" R.Q. Dk No 2 Hatch Fwd. 30" Canvas Covers

No 1 Hatch Centre 36" " 2 Aft 6" 30" provided.

Aft PK. 30"

Scuppers and Sanitary Discharge Pipes (state material, type and number of valves)

One Sanitary Discharge, Forward, S. Side, below Upper Dk with 1 S.V.

Side Scuttles to spaces below freeboard and superstructure decks (state type or pattern, and if permanent or portable deadlights are supplied)

In Forecastle, 3 Hinged P. & S. with deadlights.Bridge Space, 2 Hinged, P. & S. Bridge Front 5 Hinged, no deadlights. emergency wood plug providedAft Accommodation, 1 Hinged P. & S. with deadlights.

Guard Rails on freeboard and superstructure decks (state type and where fitted)

On Forecastle Dk, 36" high, 2 bar type, Stanchions 50" apart.

COMPUTATION OF FREEBOARD.

Length on summer load line **200' 0** Moulded Breadth **30' 3"** Moulded Depth **14' 3"** Depth of Keel **7 1/2"**

Moulded displacement (ex bossing) at moulded draught of 85 per cent. of moulded depth

Co-efficient of fineness for use with tables $\frac{\Delta \times 35}{L \times B \times D \times 85} =$

Displacement and tons per inch immersion in salt water at summer load line **1638 tons.**

Moulded depth **14 2** Deduction for Fresh Water $\frac{\Delta}{40 T} =$ inches

Stringer Plate Round of Beam Correction

Sheathing on exposed deck T $(\frac{L-S}{L})$ Ships Round of Beam inches

Rise of floor (in sailers) Standard Round of Beam $\frac{B \times 12}{50}$

Depth for Freeboard (D) Difference

Table Depth Restricted to

Depth Correction Correction $\frac{\text{Difference}}{4} \times (1 - \frac{S}{L}) =$

If restricted by superstructures

	Enclosed Length	Length of Overhang	Height	Mean Covered Length (S)	Height Correction	Effective Length (E)	Standard Height of Superstructure
Poep							" " R.Q.D.
Raised Quarter Deck	102.67	F	3' 11"				Percentage covered S/L =
Bridge	12.83	A	7' 0"				" " E/L =
Forecastle	36'		7'				" from Table line A, B, (corrected for absence of forecastle if required)
Trunk Aft							Percentage from Table by interpolation for Bridge less than .2L if required =
Forward							Deduction =
Tonnage Opening Aft							Percentage from Table for Tankers (or Timber ships) =
Forward							Deduction =
Totals							

Station	Actual Sheer	Standard Sheer	Effective Sheer	S.M.	Product	Mean Actual sheer aft =	Mean Actual sheer forward =
A.P.	265			1		" Standard " "	" Standard " "
1/2 L from A.P.	7			4			
1/2 L from A.P.	25			2			
Amidships	9			4		Length of enclosed superstructure forward of amidships =	Length of Ship
1/2 L from F.P.	3			2		Length of enclosed superstructure aft of amidships =	Length of Ship
1/2 L	37			4			
F.P.	67.5			1			
				18		Sheer Correction = Difference $\times (.75 - \frac{S}{2L}) =$	
Effective Mean Sheer							
Standard " "		.05L + 5				If limited on account of midship superstructure =	
Difference						" to maximum allowance of 1 1/2 ins. per 100 ft. =	

TABULAR FREEBOARD corrected for flush deck if required =

Correction for co-efficient =

Depth correction

Deduction for superstructures

Sheer correction

Round of Beam correction

Correction for thickness of deck amidships

Other corrections, scantlings, etc.

Summer Freeboard in inches =

Additional allowance for superstructures on

Timber carrying ships =

Summer Timber Freeboard in inches =

DRAUGHTS AND SEASONAL CORRECTIONS

Sailer, Tanker, Steamer

Timber

Depth to Freeboard Deck in feet

Summer Freeboard in feet

Moulded Draught (d)

Addition for Keel

Extreme draught

Deduction for Tropical and addition for Winter freeboard $d/4 =$ ins.

Addition for Winter North Atlantic (if required) = ins.

Deduction for Tropical Timber Freeboard $\frac{d}{4} =$ ins.

Addition for Winter " " $\frac{d}{3} =$ ins.

" " N.A. Timber Freeboard (if required) = ins.

assigned 7/11/33

Raised Quarter

SUMMER FREEBOARD recommended amidships from centre of disc to top of deck line, (steel) **4'-8 1/4"**

TROPICAL FRESH WATER LINE above centre of disc **5"** Corresponding Freeboard **4'-3 1/4"**

FRESH WATER LINE " " **3"** " " **4'-5 1/4"**

TROPICAL LINE " " **2"** " " **4'-6 1/4"**

WINTER LINE below " " **2"** " " **4'-10 1/4"**

WINTER NORTH ATLANTIC LINE " " **4 1/4"** " " **5'-1"**

SUMMER TIMBER FREEBOARD recommended amidships from centre of disc to top of deck line

TROPICAL FRESH WATER Timber line above centre of disc Corresponding Freeboard

FRESH WATER " " " " " " " "

TROPICAL " " " " " " " "

WINTER " " below " " " " " "

WINTER NORTH ATLANTIC " " " " " " " "

	Coaming	Plating	Stiffeners	Spacing	End Attachments	No. and size of Openings	Height of Sills	Height of Casings
Poep Bulkhead	-	-	-	-	-			
R.Q.D. "		.25	5'-15" x .25 webs.			None	-	-
Bridge Aft Bulkhead		.25	6 1/2 x 3 x .30	30"	Bldd Bottom.	None	-	-
" Forward "	.3	.25	2 1/2 x 3 x .30	26"	Bldd Top.	1 @ 4' 11" x 2' 2"	18"	7'-0"
Forecastle Bulkhead	.25	.25	2 1/2 x 3 x .30	26"	Bldd Top.	1 @ 4' 11" x 2' 2"	18"	7'-0"
Trunk, Aft								
" Forward								
Exposed Machinery Casings on	.34	.25	3 1/2 x 3 1/2 x .37	38"	Bldd Top	3 @ 5'-0" x 2'-0"	18"	7'-0"
Freeboard or R.Q. Decks						1 @ 4'-9" x 1'-10"	16"	
Exposed Machinery Casings on								
superstructure decks								
Machinery Casings within Super-structures not fitted with Cl. 1. closing appliances								
Deckhouses on flush deck ships								

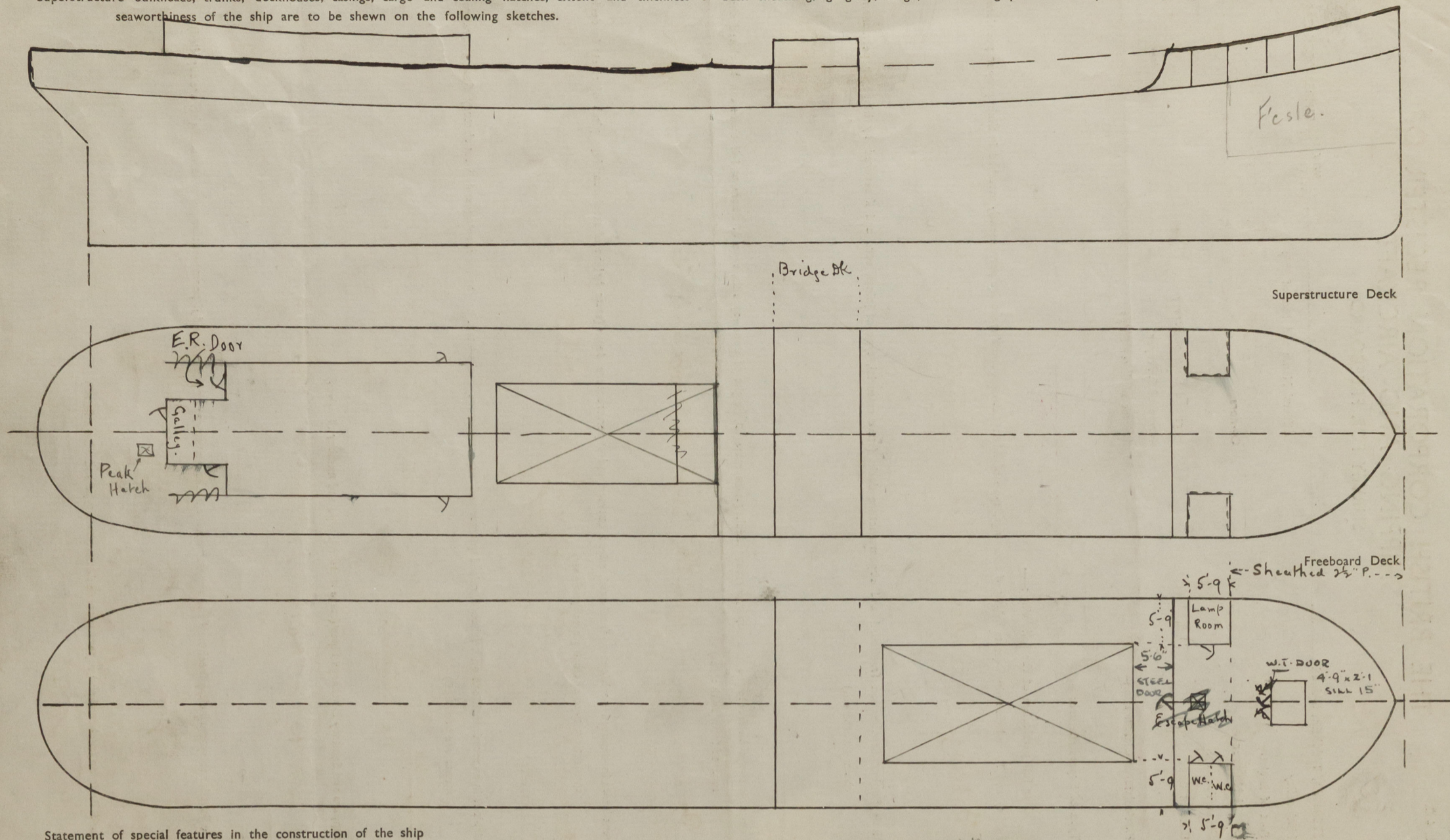
PARTICULARS OF CLOSING APPLIANCES (state if capable of being manipulated from both sides)

Poep Bulkhead	no openings
R.Q.D. "	no openings
Bridge Aft Bulkhead	no openings
" Forward "	no openings
Forecastle Bulkhead	open 1 Hinged Steel Door on Port Side operated both sides
Exposed Machinery Casings on	2 Steel doors to Fiddley, 1 Steel Door to Engine Room - insure fastenings
Freeboard or R.Q. decks	1 Wood Door to Aft Accommodation, operated both sides.
Exposed Machinery Casings on	
superstructure decks	
Machinery Casings within super-structures not fitted with Cl. 1. Closing Appliances	
Deck houses on Flush Deck ships	

PARTICULARS OF FREEING ARRANGEMENTS

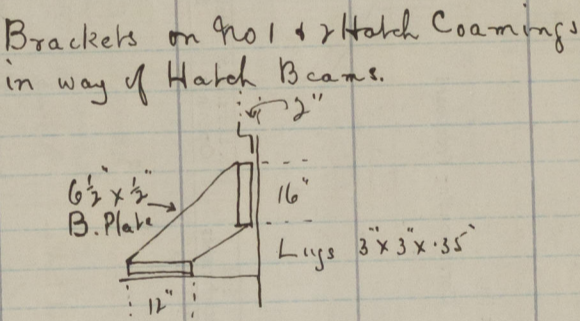
	Length of Bulwark	Height of Bulwark	No. and size of Freeing Ports each side	Area each side	Rule Area
After Well	102'-8"	3'-3"	2 @ 2'-6" x 18" + 3 @ 3'-11" x 18"	21 sq ft	
Forward Well	48'-6"	4'-3"	3 @ 31" x 18"		
State fore and aft position and height above					
deck to bottom of port, for each port					
State whether freeing ports are fitted with shutters, bars or rails, and give particulars					
Hinged Shutters. Rod fitted across opening					
Give particulars of freeing port area, etc., on superstructure decks					

Superstructure bulkheads, trunks, deckhouses, casings, cargo and coaling hatches, extent and thickness of deck sheathing, gangway, cargo, and coaling ports, and any other openings, etc., which would affect the seaworthiness of the ship are to be shown on the following sketches.



Statement of special features in the construction of the ship

PARTICULARS OF ALL HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS				
	R. Qr. Bk	UPPER DECK	Escape Hatch	R. Gr. Bk
Number and description of Hatchway from forward	No 2	No 1	No 1 Hatch	Aft. PK. Hatch
Dimensions of Hatchway	33'-0" x 14'-0"	42'-2" x 16'-0"	24" x 24"	30" x 30"
COAMINGS	Height steel above wood deck	3'-0"	3'-0"	10 1/2"
	Thickness sides ends	.5"	.5"	.38"
	Stiffeners	-	-	-
	Brackets or Stays	3 (See Sketch)	4 (See Sketch)	-
HATCH BEAMS	Number	3	4	-
	Spacing	Ends 7'-4" Centres 9'-2"	Ends 7'-4" Centres 9'-2"	-
	Scantling and Sketch	7 1/2" x 3" x 28' - 32" x 5" - 40'-2"	7 1/2" x 3" x 37' - 34" x 5" - 40'-2"	-
	Bearing Surface and thickness of carriers or sockets	3" x 1/2"	3" x 1/2"	-
FORE AND AFTERS	Number	3	3	-
	Spacing	3'-6"	4'-0"	-
	Unsupported lengths	7'-0" and 9'-0"	7'-0" and 9'-0"	-
	Scantling and Sketch	C. 8" x 6" S. 7" x 5"	C. 8" x 6" S. 7" x 5"	-
HATCH COVERS	Bearing Surface and thickness of carriers or sockets	2 1/2" x 1"	2 1/2" x 1"	-
	Material	W. P.	W. P.	W. P.
	Thickness	2 1/4"	2 1/4"	2 1/4"
	How Fitted	alt.	alt.	alt.
Bearing Surface	2"	2"	2 1/2"	2 1/2"
Spacing of Cleats	27"	24"	24"	3
Number of Tarpaulins	3	3	-	-



Are wood fore and afters steel shod at all bearing surfaces? *Yes*
 Are battens and wedges efficient and in good condition? *Yes*
 Are tarpaulins in good condition and in accordance with rule requirements? *Yes*
 Are lashings provided in accordance with rule requirements? *Yes*

[Surveyors are to note that wood fore and afters are to be steel shod at all bearing surfaces.]

COMPUTATION OF FREEBOARD

Gangways and Lifelines

None provided. Lifeline fitted each side in fore well and on R.Q.B. suitably lashed down at intervals.

Gangway, Cargo and Coaling Ports in sides of ship

none

SUPPLEMENTARY REQUIREMENTS FOR STEAMER CARRYING TIMBER DECK CARGOES

Do Superstructures and Machinery Casings comply with rules ?

Is provision made for protection of steering gear, and is emergency steering gear provided ?

Are efficient uprights, sockets and lashings provided according to rules ?

State particulars of longitudinal subdivision in double bottom

State particulars of Bulwarks and Rails

Approval date of plans and full particulars of arrangements for stowing and securing timber

The scantlings and protective arrangements being in accordance with the Freeboard rules it is submitted that the freeboard be assigned

Passed at a meeting of the Committee of Management of the British Corporation Register of Shipping and Aircraft

on the *31st January 1934*



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Chief Surveyor.

Lloyd's Register
Foundation
Secretary.